

1 **ABSTRACT**

2 Various implementations of the described subject associate a plurality of
3 threads that are sorted based on thread priority with a run queue in a deterministic
4 amount of time. The run queue includes a first plurality of threads, which are
5 sorted based on thread priority. The second plurality of threads is associated with
6 the run queue in a bounded, or deterministic amount of time that is independent of
7 the number of threads in the associated second plurality. Thus, the various
8 implementations of the described subject matter allow an operating system to
9 schedule other threads for execution within deterministic/predetermined time
10 parameters.